

Getting Started With Bluetooth Low Energy Tools And Techniques For Low Power Networking Carles Cufi

Getting Started with Bluetooth Low Energy
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Getting Started with Bluetooth Low Energy
Getting Started With MicroPython Development for
Raspberry Pi Pico
Getting Started with Intel Edison
Windows Command Line Administration
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FreeSWITCH 1.0.6
Wireless Security
Samsung ARTIK Reference
Mac OS X
Tiger Unleashed
How to Do Everything BlackBerry Storm2
Handboek Mac OS X Lion / druk
1
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Data Transmission, Security and Node Deployment
Getting Started with Bluetooth
The Intelligent Wireless Web
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with bluetooth low energy ble smart devices are about to become even smarter this practical guide demonstrates how this exciting wireless technology helps developers build mobile apps that share data with external hardware and how hardware engineers can gain easy and reliable access to mobile operating systems this book provides a solid high level overview of how devices use ble to communicate with each other you u2019 ll learn useful low cost tools for developing and testing ble enabled mobile apps and embedded firmware

and get examples using various development platforms u2014 including ios and android for app developers and embedded platforms for product designers and hardware engineers understand how data is organized and transferred by ble devices explore ble u2019 s concepts key limitations and network topology dig into the protocol stack to grasp how and why ble operates learn how ble devices discover each other and establish secure connections set up the tools and infrastructure for ble application development get examples for connecting ble to iphones ipads android devices and sensors develop code for a simple device that transmits heart rate data to a mobile device

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this book is designed for anyone who learns how to get started with micropython development for raspberry pi pico the book covers raspberry pi pico with python the following is a list of highlight topics preparing development environment setting up micropython gpio programming pwm and analog input working with i2c working with working with spi working with temperature and humidity dht module building iot application over wifi reading sensors on raspberry pi pico from android over bluetooth working with oled i2c display working with file system working with gps u blox module

the intel edison is a crowning achievement of intel s adaptation of its technology into maker friendly products they ve packed the dual core power of the atom cpu combined it with a sideboard microcontroller brain and added in wi fi bluetooth low energy and a generous amount of ram 1gb and flash storage 4gb this book written by stephanie moyerman a research scientist with intel s smart device innovation team teaches you everything you need to know to get started making things with edison the compact and powerful internet of things platform projects and tutorials include controlling devices over bluetooth using python and arduino programming environments on edison tracking objects with a webcam and opencv responding to voice commands and talking back using and configuring linux on edison

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doctoral thesis dissertation from the year 2017 in the subject electrotechnology grade phd course doctor of philosophy language english abstract wireless sensor networks wsns is fast emerging as prominent study area that attracting considerable research attention globally the field has seen tremendous development in design and development of application related interfaces with sensor networks sensor network finds applications in several domains such as medical military home networks space and so on many researchers strongly believe that wsns can become as important as the internet in the near future just as the internet allows access to digital information anywhere wsns could easily provide remote interaction with the physical world it is going to be the backbone of ubiquitous computing ubicomp through local collaboration among sensors elimination of duplicate data participation of relevant nodes in the given task etc can produce a significant difference in energy conservation thereby increasing the life time of the sensor network as the number of nodes increases data security becomes the most challenging part of the network the intruders can hack the data any time during processing transmission or at the receiver end so as a popular approach data encryption is the most commendable approach in today s network asymmetric key encryption consumes more energy in processing and so not recommended for wsns symmetric key encryption gives better performance with respect to asymmetric key encryption in wsn applications it uses less computational power due to relatively effortless mathematical operations and eventually spends less power this thesis also proposes a symmetric data encryption through tabulation method of boolean function reductionfor the wsns for secure data transmission it also suggests a new secure approach seemd security

enabled energy efficient middleware algorithm for the critical data sensing and gives a second chance to the nodes before it falls into sleep mode for energy management. WSNs are designed for applications which range from small size healthcare surveillance systems to large scale agricultural monitoring or environmental monitoring. Thus, any WSN deployment data aggregation, processing and communication have to assure minimum quality of service (QoS) in the network from application to application. In this circumstances, the proposed algorithms in this thesis proved to be efficient and reliable in energy saving and life time enhancement.

As the world continues to become more mobile and business is conducted in the blink of an eye, a new system is taking communication one step further. Bluetooth technology unites computing with telecommunication. This innovative breakthrough eliminates the need for cables by using short range radio links equipped with features such as robustness, low complexity, low power and low cost. This technology incorporates any digital device including PDAs and printers into the Bluetooth system. Getting started with Bluetooth teaches you concepts about Bluetooth specifications, devices and architecture, giving you the knowledge to gain a competitive edge.

The authors provide insight into the convergence of two of the biggest current trends in the internet: the growth of the wireless and the growth of the intelligent

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